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Figure 1: Development Flow

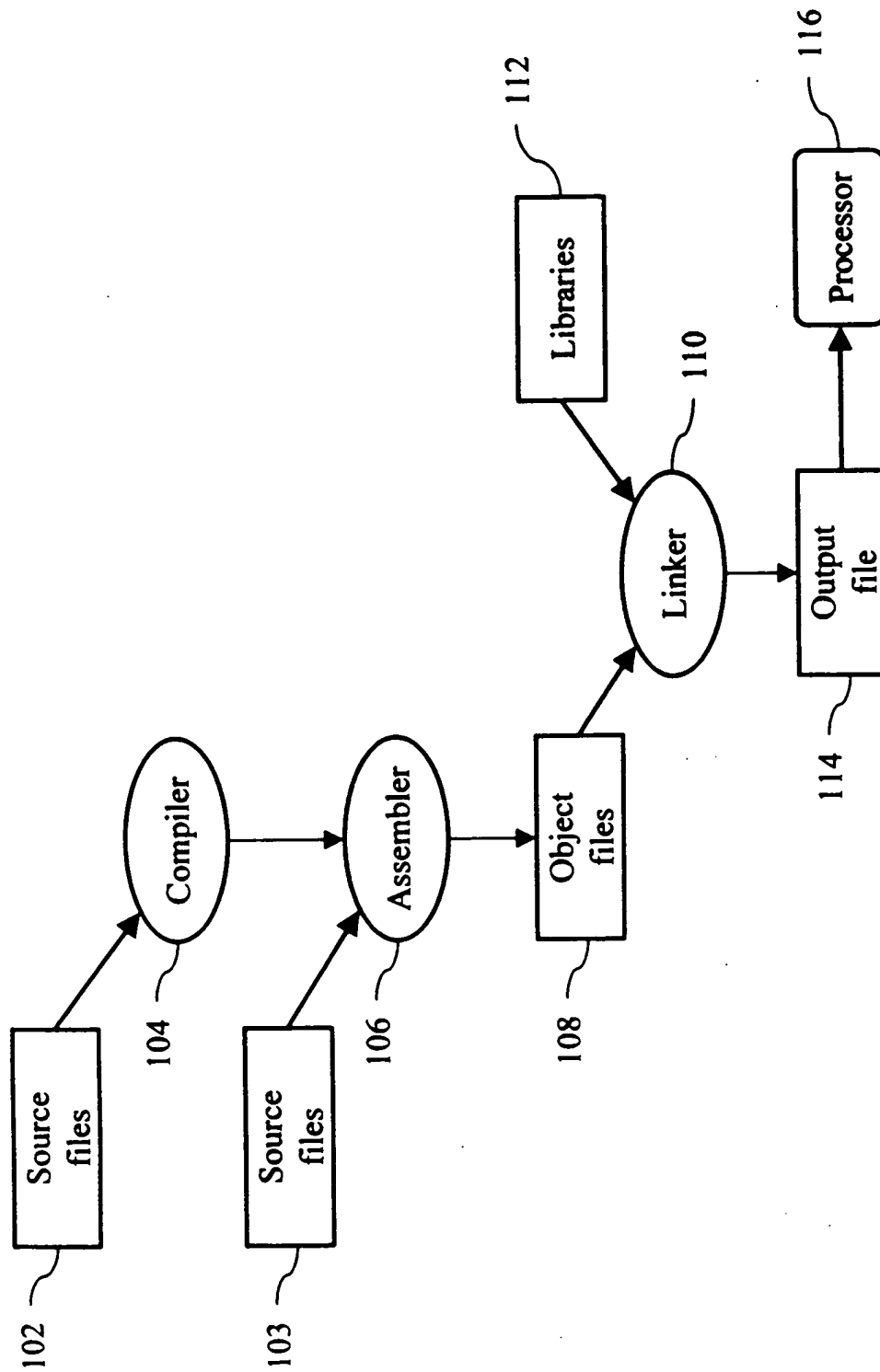


Figure 2A: Typical Linker Apparatus

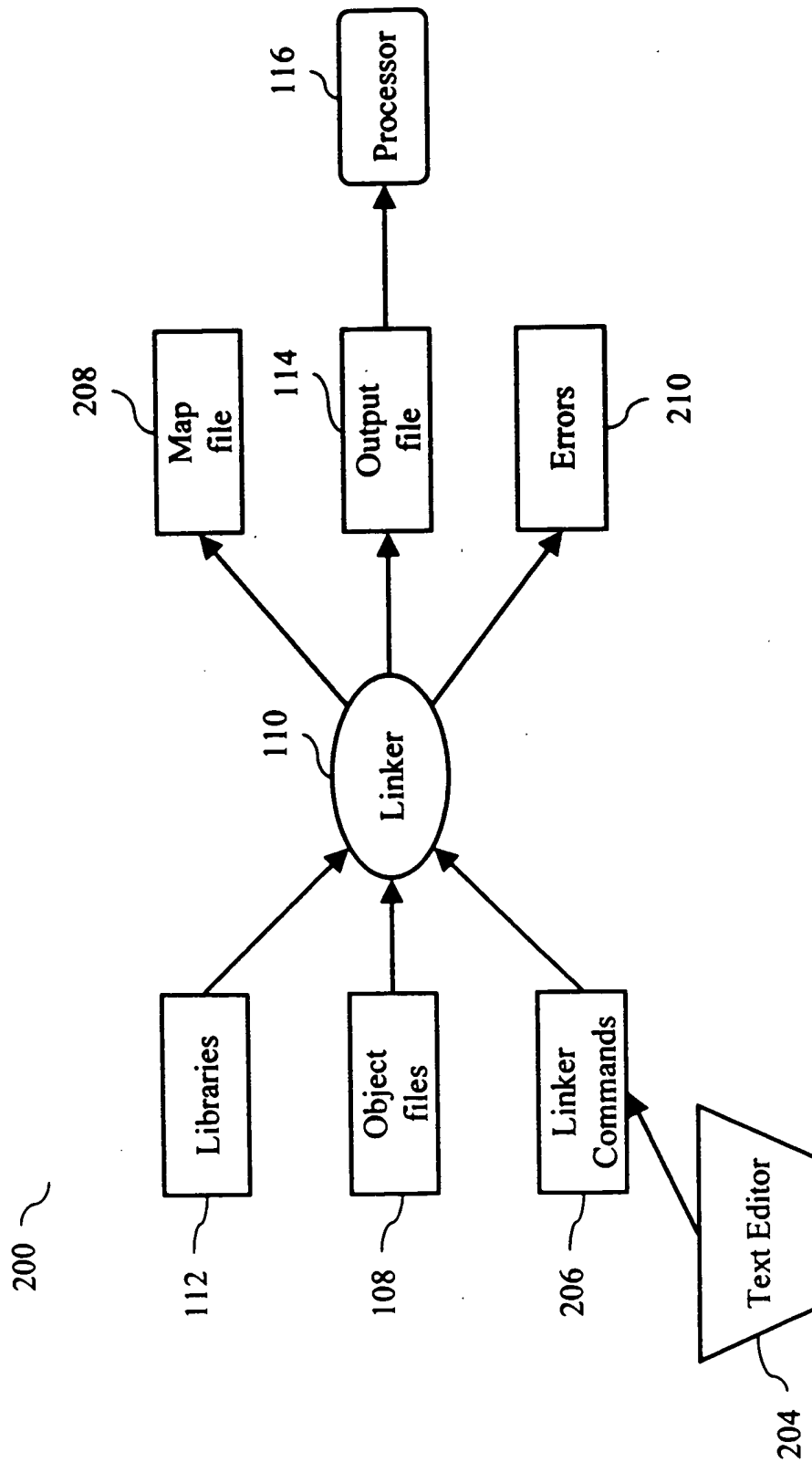


Figure 2B: Typical Linker Method

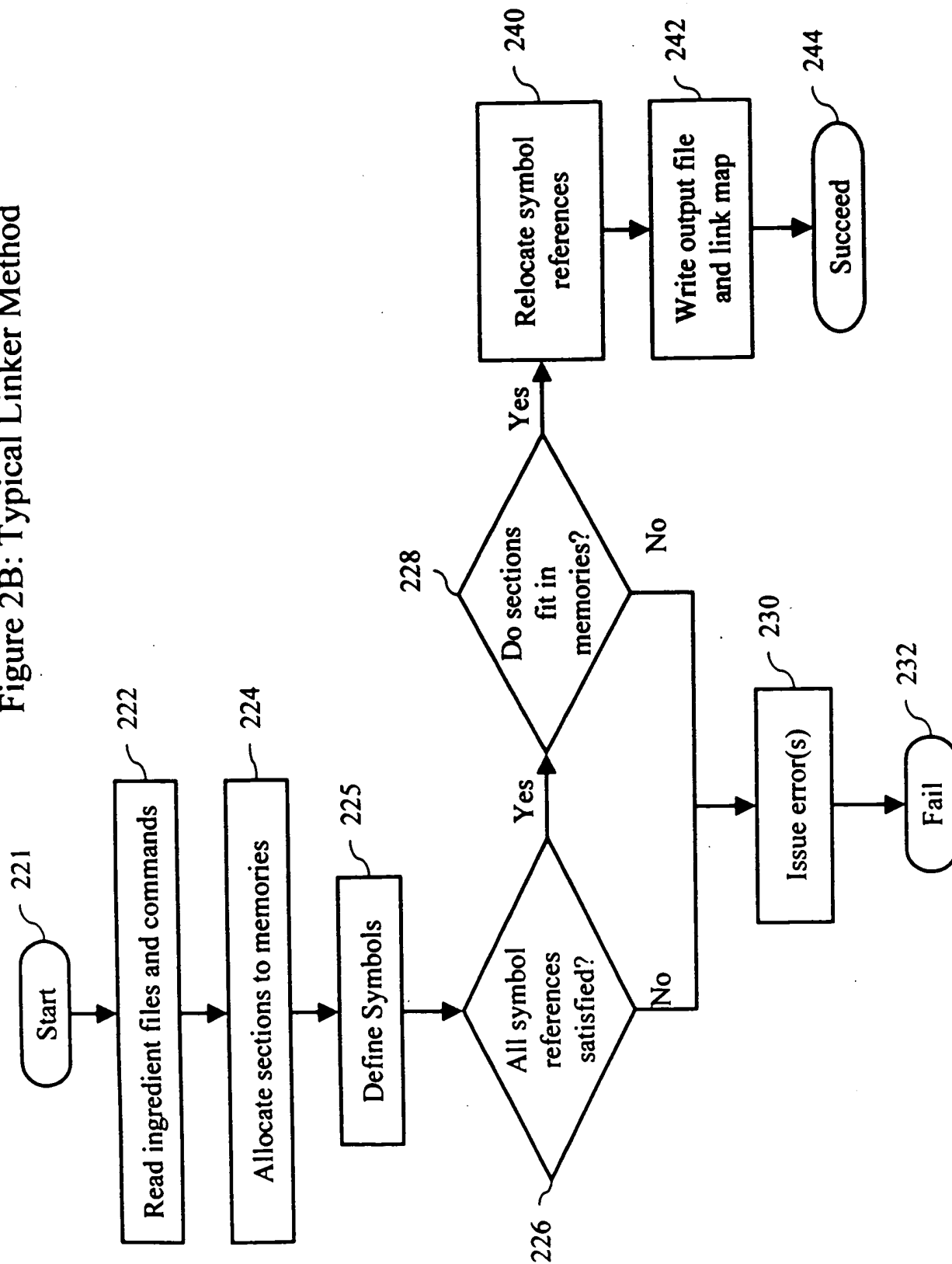


Figure 3: Linker Allocation and Output

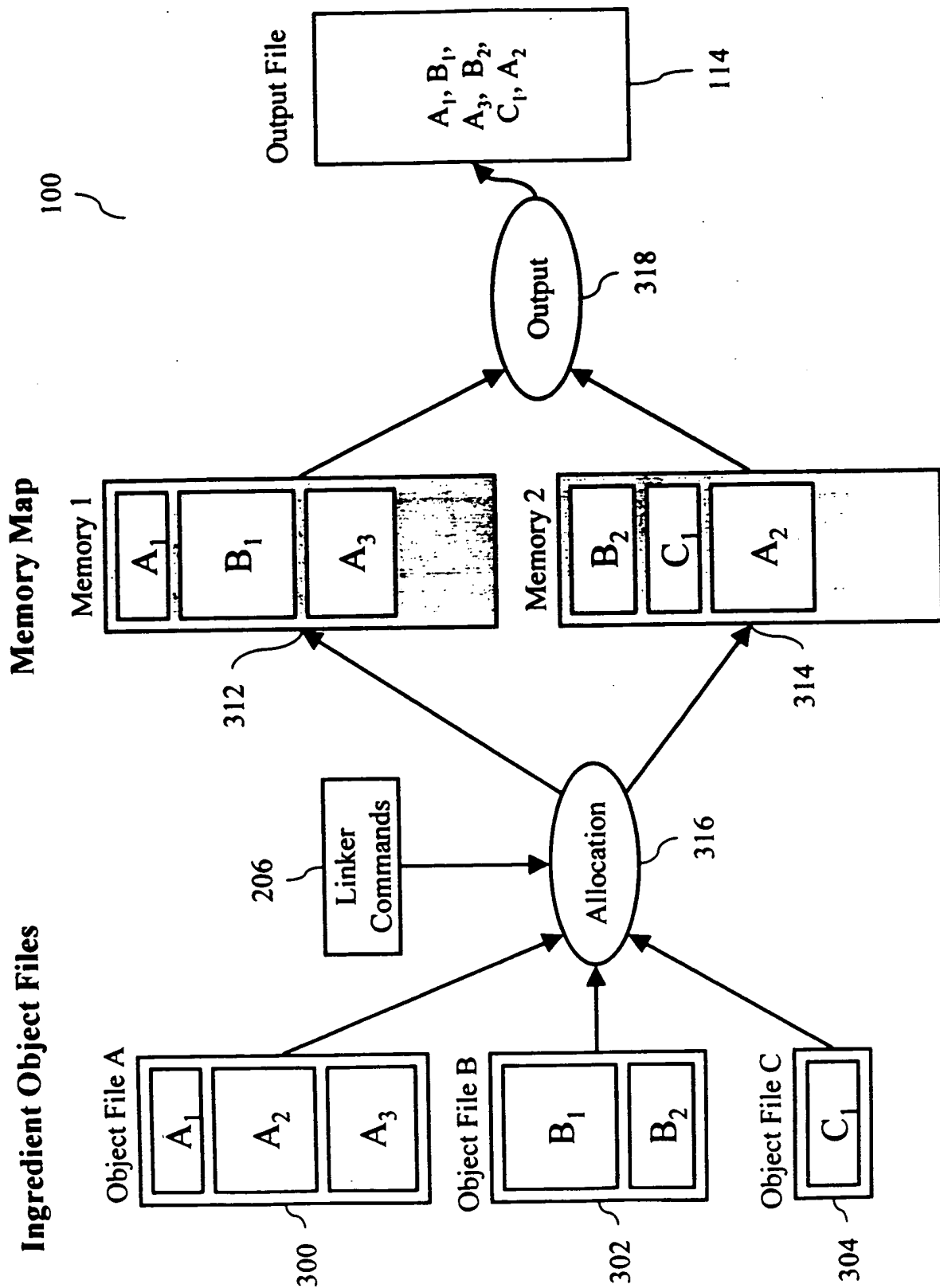
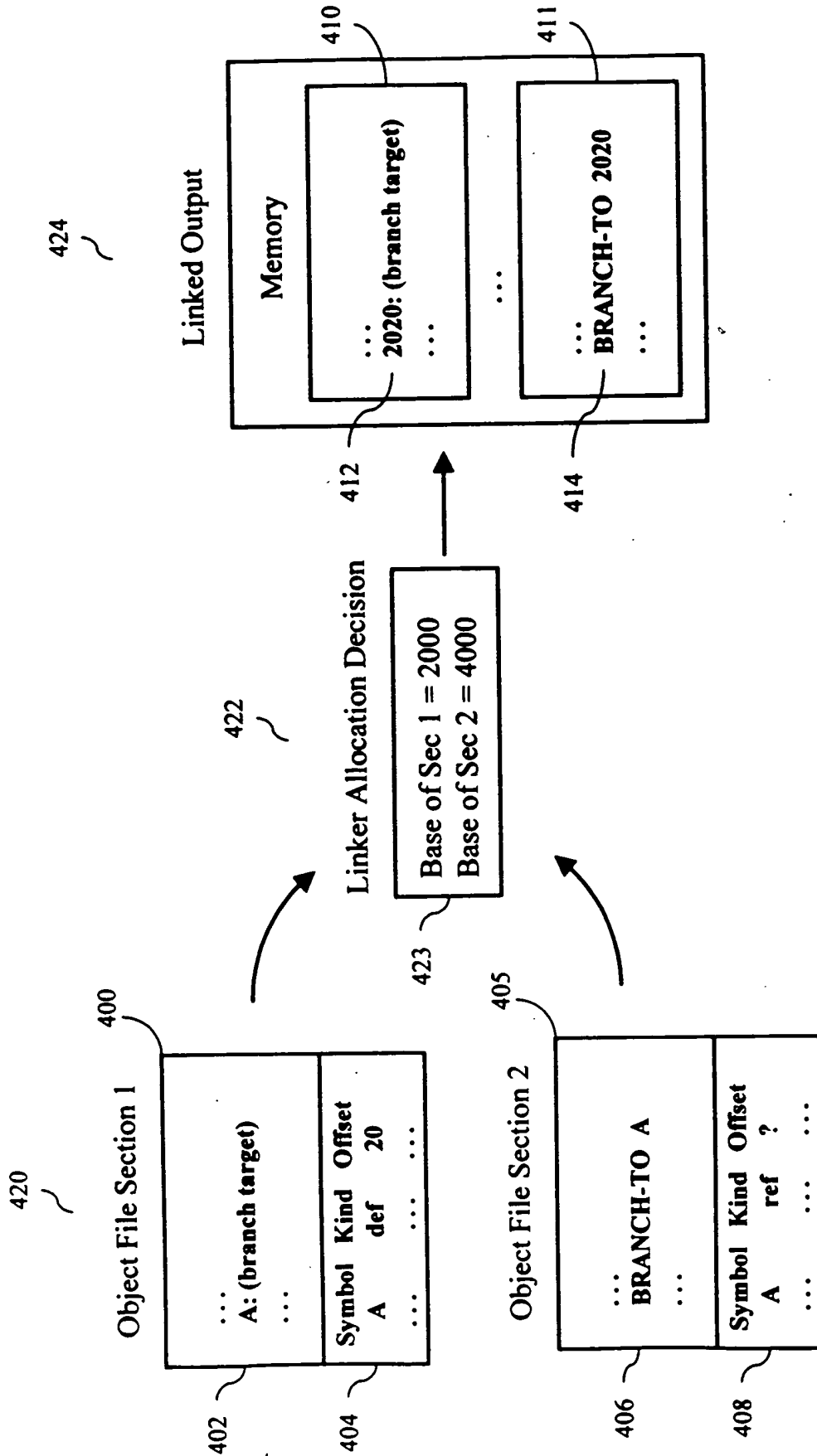


Figure 4: Linker Symbol Resolution



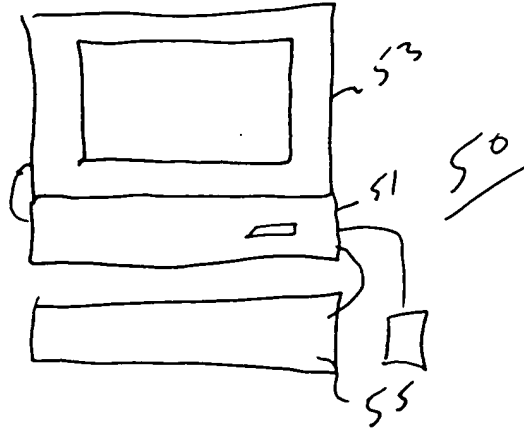


Fig. 5

Figure 6: Original code as produced by compiler or assembler.

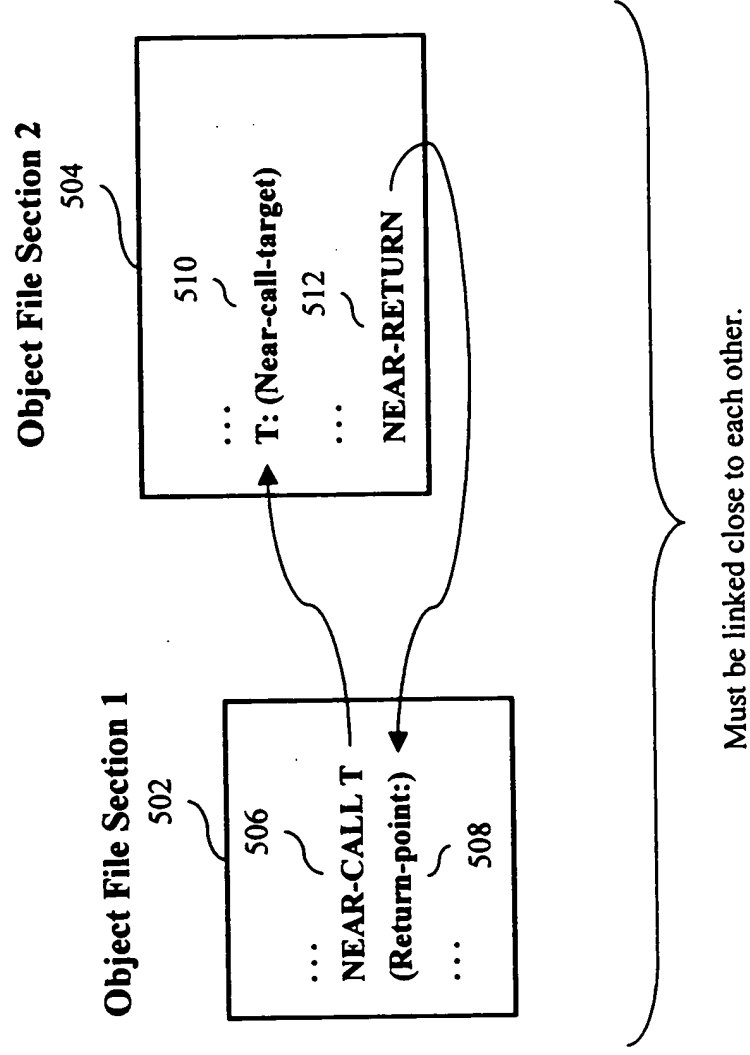
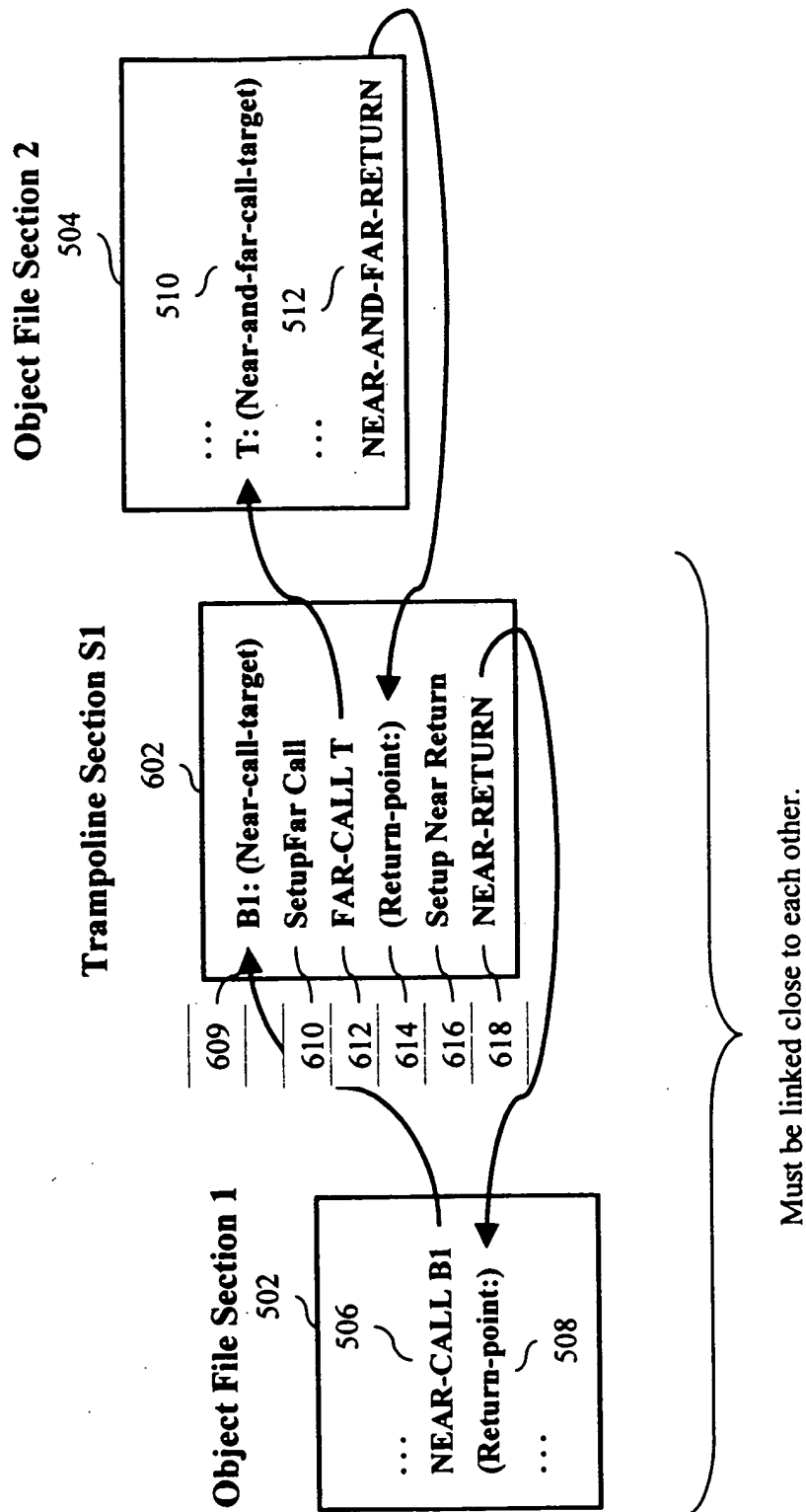


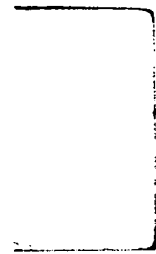
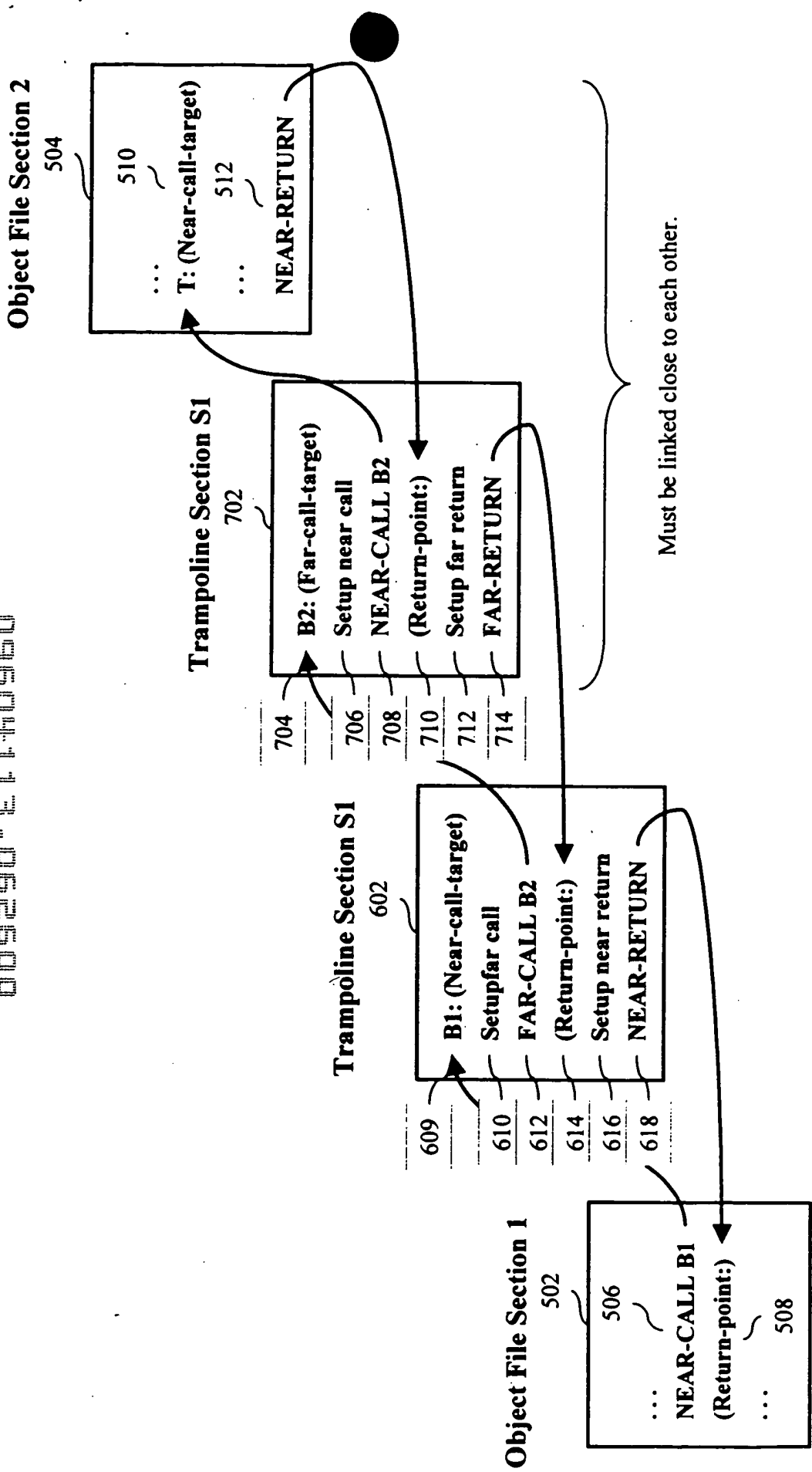
Figure 7: Near call after fixup with single trampoline.



Must be linked close to each other.

Figure 8: Call after fixup with two trampolines.

009290" E F F 1 0 9 6 0



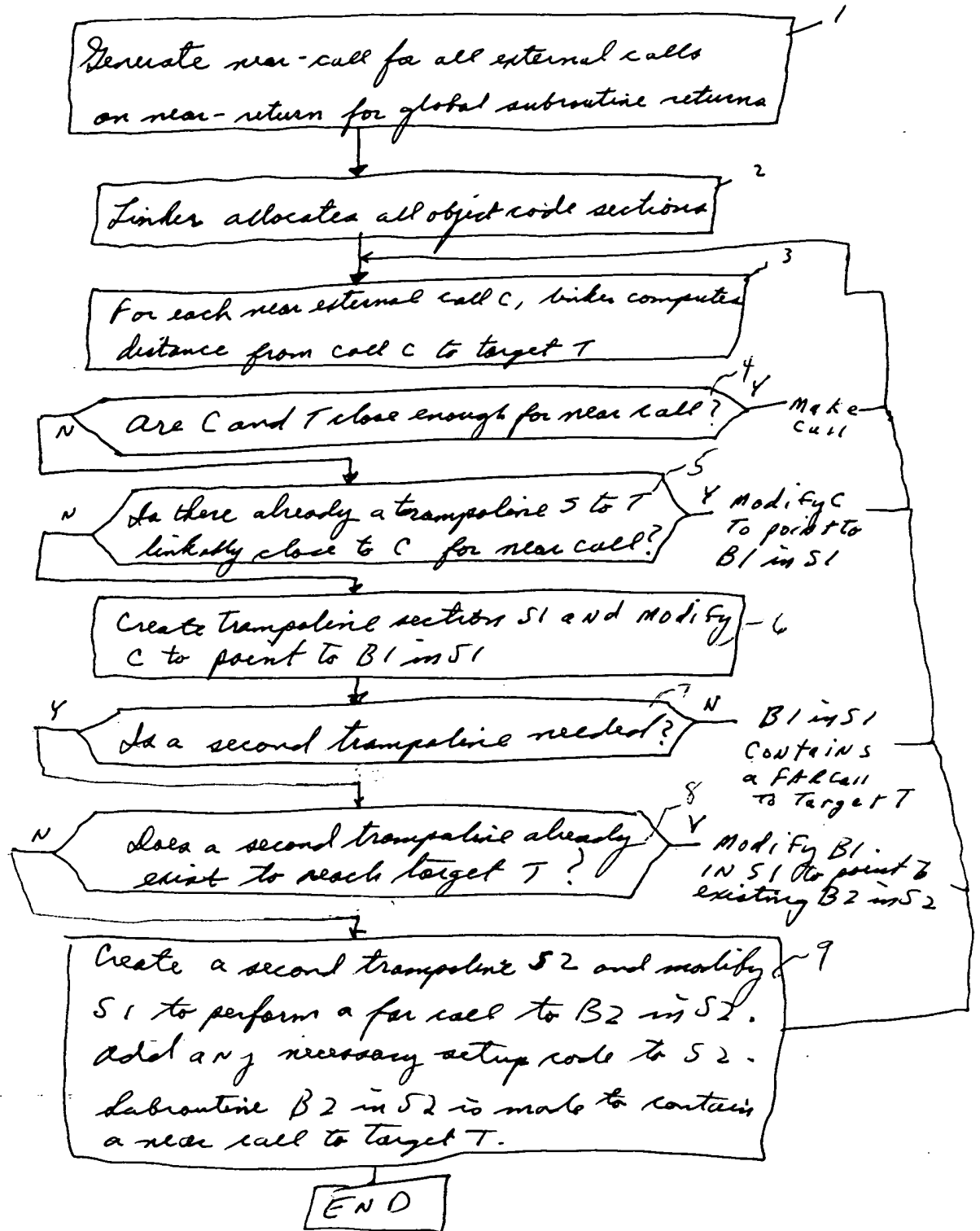


Fig. 9

Fig. 10

[illegible]

0960413 06600

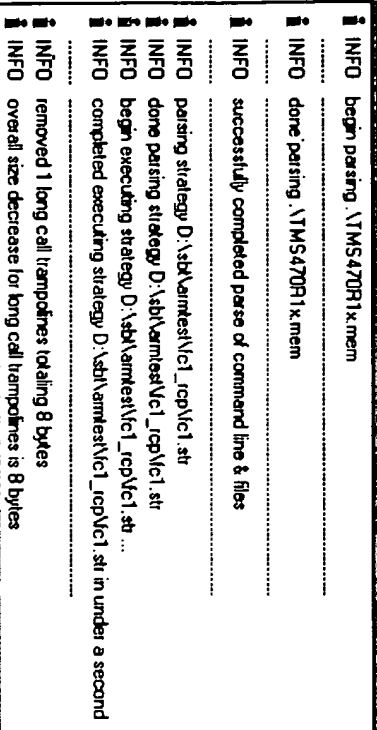
[illegible]

Fig. 11



Memory Maps

TMS470R1x

Link-Time Absolute Syms

run_view

Need Not Place

init

const

data

initvecs

470_ROM_out_call

_add2_470_ROM_out_call

_add_470_ROM_out_call

needs_trampoline_text

text

ic1a\text

_main

RAM

FAR_ROM

ic1a\text

ic1c\text

ic1b\text

ic1a\text

load_view

Output Files

All Input Files

ic1

INFO begin parsing \TMS470R1x.mem

INFO done parsing \TMS470R1x.mem

INFO successfully completed parse of command line & files

INFO parsing strategy D:\sh\armtest\ic1_jcp\ic1.st

INFO done parsing strategy D:\sh\armtest\ic1_jcp\ic1.st

INFO begin executing strategy D:\sh\armtest\ic1_jcp\ic1.st

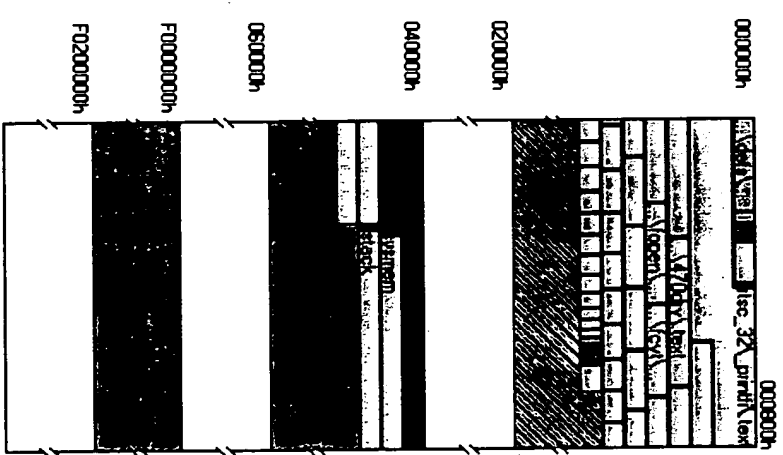
INFO completed executing strategy D:\sh\armtest\ic1_jcp\ic1.st in under a second

INFO created 1 long call trampolines totaling 8 bytes

INFO overall size increase for long call trampolines is 8 bytes

ic1	Const...	0000000h	0002F8h	0002FCh
data	Hole	0000000h	0000000h	0000000h
initvecs	Hole	0000000h	0000000h	0000000h
const	Const...	0002FCh	0003Fh	000104h
470_ROM_out_call	Code	000400h	00040Fh	000010h
text	Code	000410h	003DE8h	00390Ch
needs_trampoline...	Code	003DECh	003E8h	000080h

run_view



09604113-062600

Fig. 12

Fig. 12 (12)